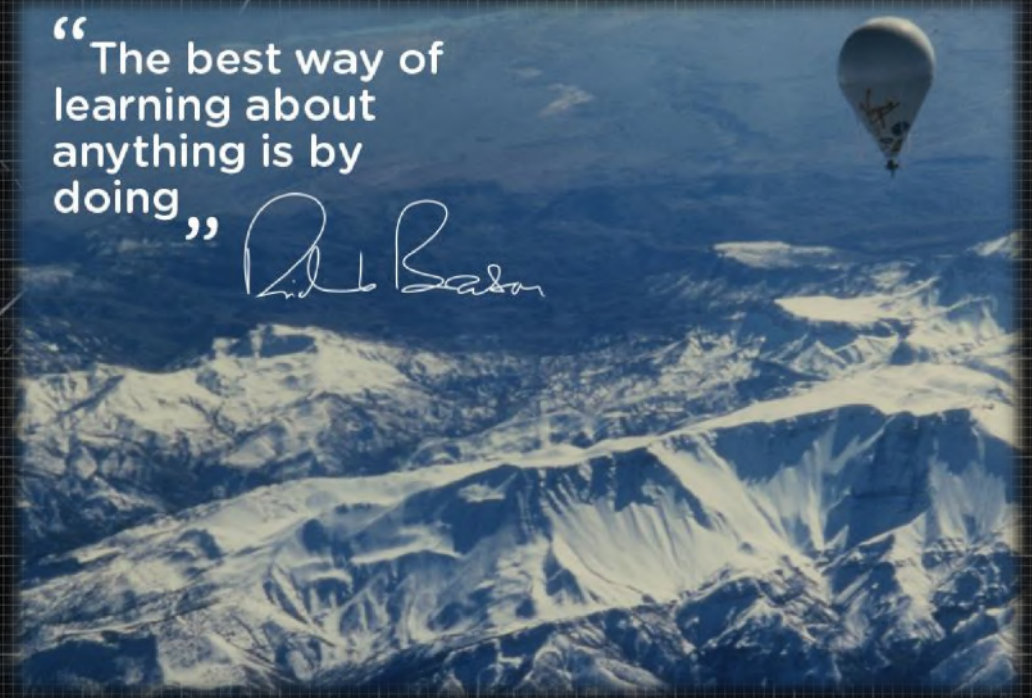


# Crew Training for Survivability and Operational Success

Andreas Isaksson  
Sergeant (Ret)  
Swedish Amphibious Forces  
Spectre Marine

“The best way of  
learning about  
anything is by  
doing,”

*Richard Branson*



**HSBO**Pro  
HighSpeed BoatOperations Professionals



**SPECTRE**  
MARINE



# Training

The right training - what is that?

Challenges

Solutions

Summary



**HSBO Pro**  
*HighSpeed BoatOperations Professionals*



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# Challenges





# I will try to give you some ideas

- Longer lifetime of the boats
- Making sure the passengers arrive safely (and in one piece)
- The crew becomes more effective at their job
- Higher knowledge means wider possibilities during all missions
- Overall decreasing of all risk elements





# What is the biggest problem for units?

- Knowledge about the subject
- Keeping the instructors knowledge up to date
- News on the market
- Time
- Training the right subject



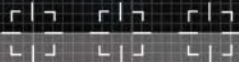


# How close to reality should we train?

What and how should we do when practice?

Dead reckoning vs. using the full system?

When reality is the navigator is waiting and the driver is mostly looking at the GPS?

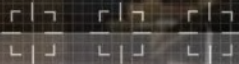


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# Structure of practice?

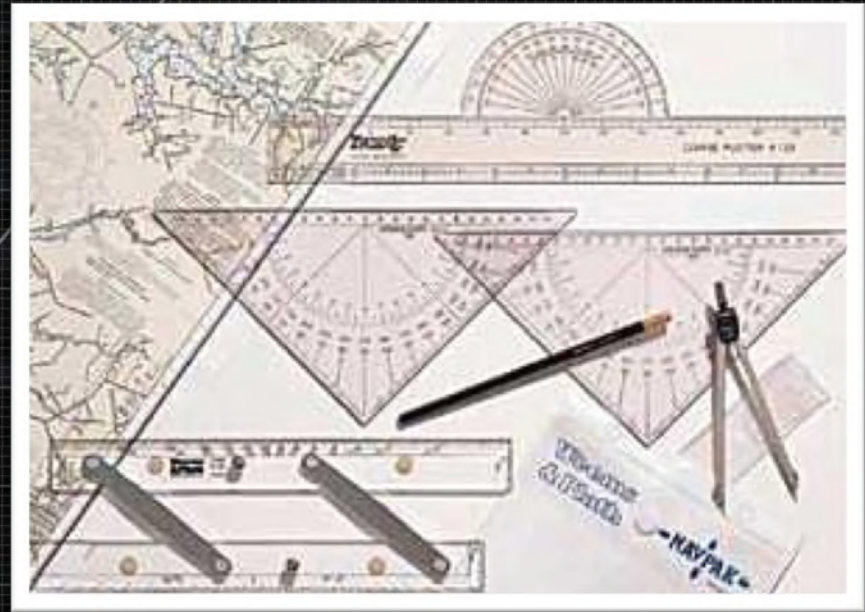
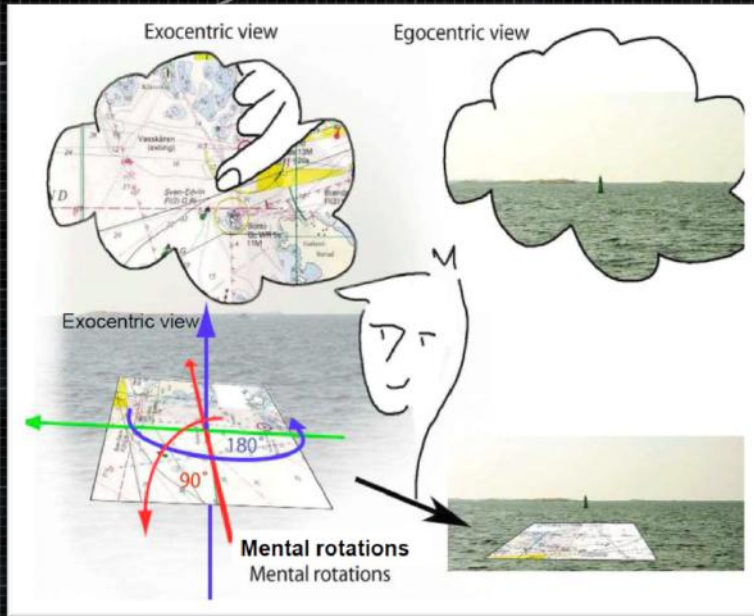
Accidents on the way home from training exercises





# Theory VS real life?

- Tradition
- Learning





Planning

Obstacle avoidance,  
waypoint navigation

Immediate  
manipulation

High speed

=

low amount of time



Reactive



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# How is the knowledge amongst the instr



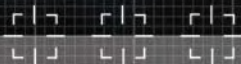
Unit

Instr knowledge





# Our solutions





# Culture

Learn from the doers, not the simulators (Countries with high level of real-life missions)

- We can learn a lot from training together with experienced troops
- Be open minded
- Create a toolbox of ideas





# Increases the safety margins



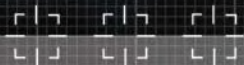
## Proactive



high speed  
methodology

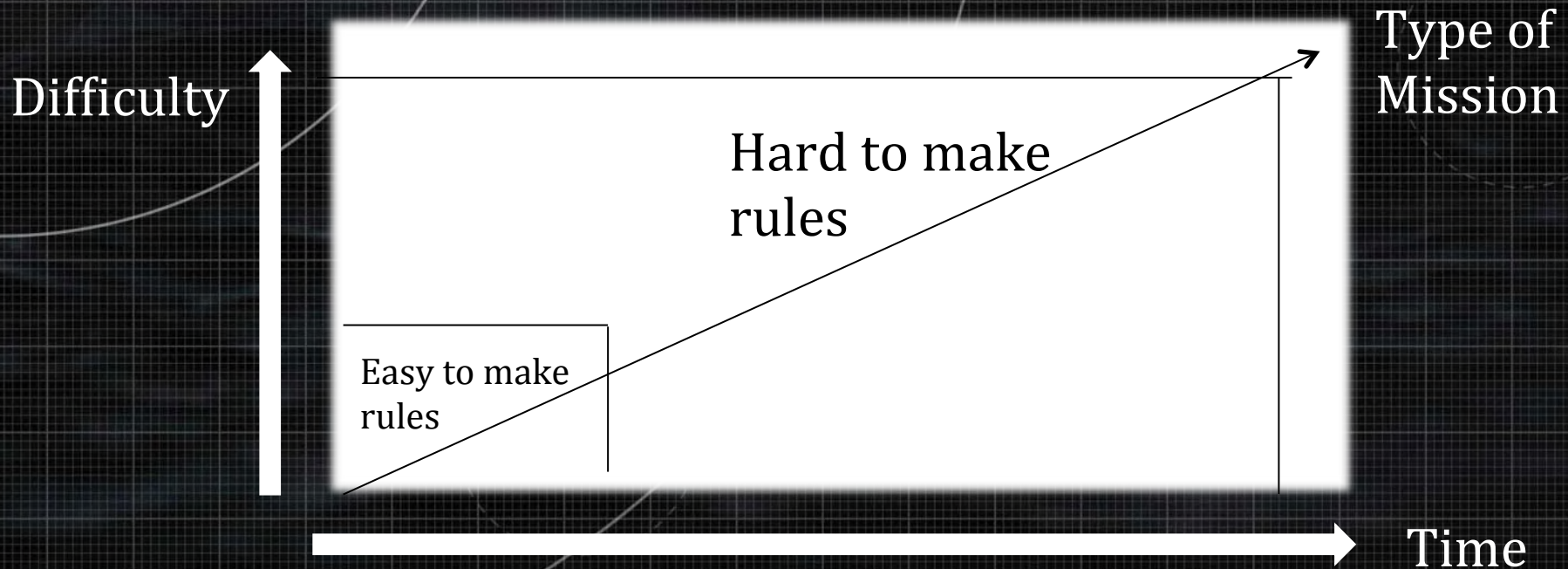
Obstacle avoidance,  
waypoint navigation

Immediate  
manipulation





# Rules – What risk can you allow



- Command responsibility
- Training
- Experience
- Equipment





# How keep the knowledge amongst the instr

Science



Flight  
Racing  
Pilots (boats)  
Charter  
Car industri

- Change this to a training school instead
- Send you instructors on courses outside your system



Unit

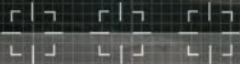
Instr knowledge





# The most professional operators

How often do they train together?





# Summary

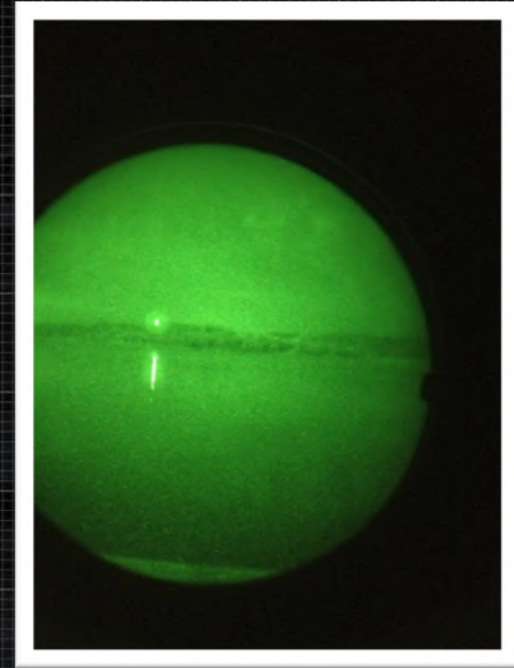




# Today's Attitudes

The arguments we face when talking about training:

- ❑ "We have the most challenging waters"
- ❑ "We've done this our whole lives"
- ❑ "We are the best at this"



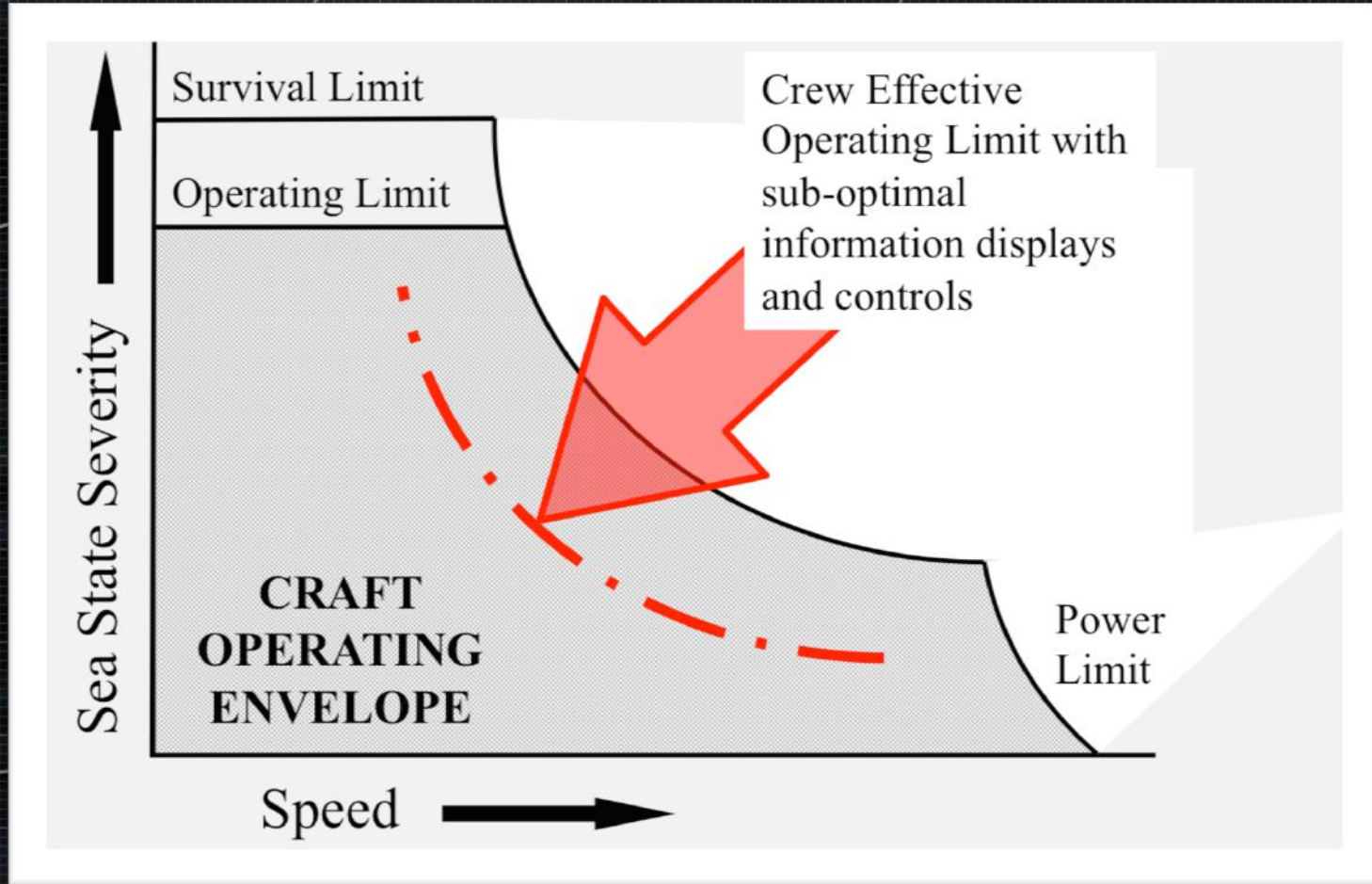
Our response when we are building a course:

- ❑ The training must be so real that the students feel connected with the course and its relevance to their role
- ❑ Always more practice than theory – real life experience – “feel” for the boat
- ❑ How often do your instructors upgrade their skills by taking courses?
- ❑ We don't educate “civil” people or normal boating





# The goal our instructors have





# What I hope I have been giving you ideas about

- Longer lifetime of the boats
- Making sure the passengers arrive safely (and in one piece)
- The crew becomes more effective at their job
- Higher knowledge means wider possibilities during all missions
- Overall decreasing of all risk elements



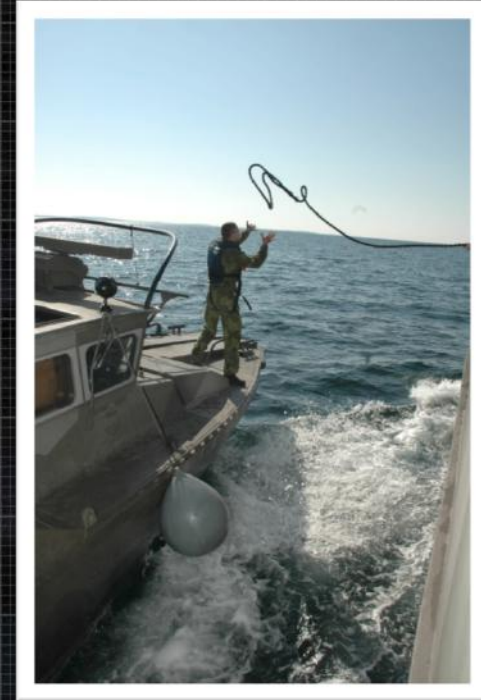


# Our Courses

Discuss your requirements with us

For example:

- Black OPS / Silhouette navigation
- Advanced radar navigation
- Search And Rescue
- Train the trainer
- Boarding
- Dynamic navigation (driving, nav etc)
- Etc. Etc.



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# Training system

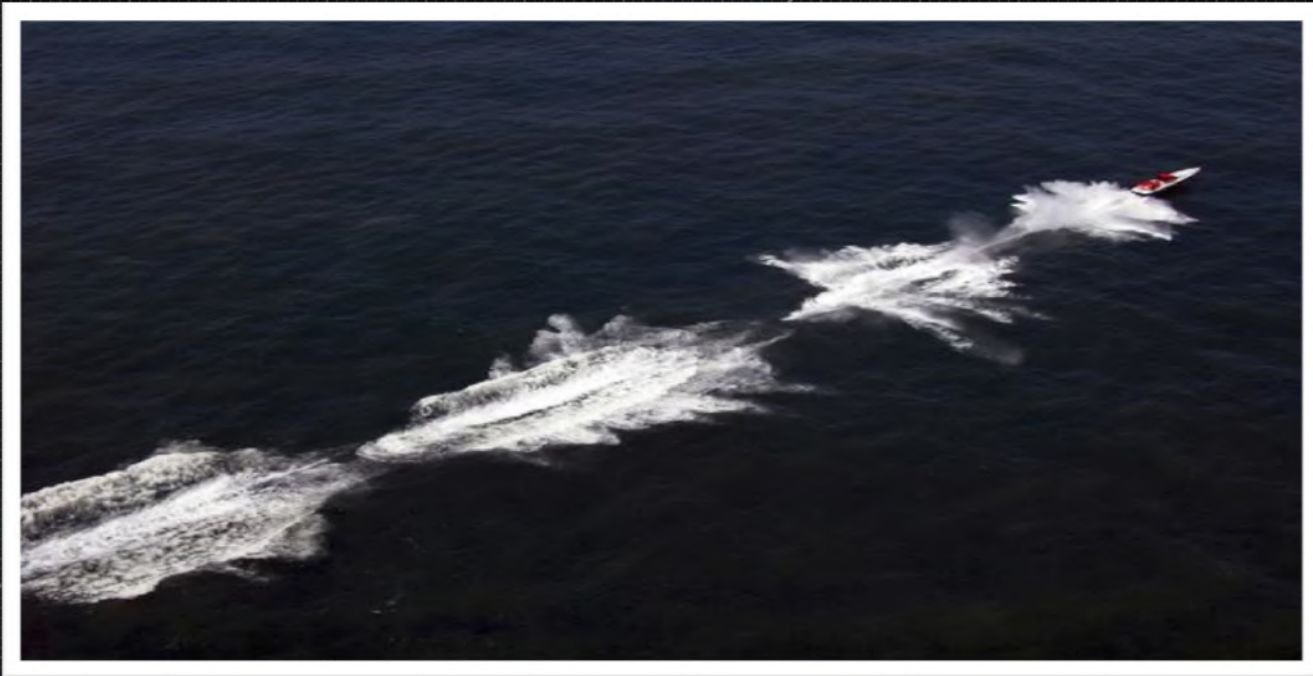
- We are trying to create a handbook for how to train for a unit
- Giving them the information and knowledge to do it
- Building up the knowledge in the right order
- Start with the recruit and give back an adv radar operator





# Example what we have been doing

- One unit that was looking for new boats





# References

<b>Swedish Sea Rescue Society</b>	<b>Swedish Amphibious Forces</b>
<b>Norway special police</b>	<b>Swedish Navy Forces</b>
<b>Greenpeace</b>	<b>Swedish Coast Guard</b>
<b>Netherlands Marines</b>	<b>Swedish boarding team</b>
<b>Netherlands Coast Guard</b>	<b>Swedish Fire department</b>
<b>Netherlands Army special forces</b>	<b>Swedish Rescue Services Agency</b>
<b>Faroe Islands Sea Rescue Society</b>	<b>Indonesian Special Police</b>
<b>Russian Navy</b>	<b>Indonesian Navy Seal</b>
<b>British Virgin Islands SAR</b>	<b>Malaysian Special Police</b>
<b>Singapore Navy</b>	<b>Honduras Navy</b>
<b>Aland Islands SAR</b>	<b>Brunei RPK</b>
<b>Rumanien SF</b>	<b>Indonesian SAR</b>
<b>Norway police</b>	<b>Denmark SAR</b>
<b>Norway special forces</b>	<b>Malta Coast Guard</b>





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Thank You

